

Title (en)
Stain-resistant nylon fibers.

Title (de)
Fleckenabweisende Nylonfasern.

Title (fr)
Fibres en nylon résistant aux taches.

Publication
EP 0242496 A1 19871028 (EN)

Application
EP 86870056 A 19860425

Priority
US 83480486 A 19860306

Abstract (en)
Nylon carpet fibers are provided which resist staining by acid dye colorants at room temperature, yet are dyeable at elevated temperatures with acid dyes without losing their resistance to acid dye colorants at room temperature. The fibers are characterized by having a coating on the surface thereof comprising one or more selected compounds (stain blockers). Carpets comprising the fibers resist staining when exposed for long periods of time to spills containing acid dye colorants. By also including a fluorochemical in the coating, the carpets can resist such staining even after being subjected to heavy human trafficking. The stain blockers used are known condensation products of formaldehyde with one or more sulfone groups containing phenols, such as phenol sulfonic acid, dihydroxy diphenylsulfone, and naphthalene monosulfonic acid

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D06M 15/41

IPC 8 full level
D06M 15/277 (2006.01); **D06M 15/41** (2006.01)

CPC (source: EP US)
D06M 15/277 (2013.01 - EP US); **D06M 15/412** (2013.01 - EP US); **Y10T 428/23993** (2015.04 - EP US); **Y10T 428/2969** (2015.01 - EP US)

Citation (search report)
• [X] US 3758269 A 19730911 - FEIGIN R, et al
• [X] US 3682582 A 19720808 - HIRSHFELD JULIAN J, et al
• [X] FR 1062949 A 19540428
• [A] GB 1137785 A 19681227 - CIBA LTD
• [X] CHEMICAL ABSTRACTS, vol. 89, no. 12, 18th September 1978, page 59, abstract no. 91123u, Columbus, Ohio, US; & JP-A-78 50 080 (ASAHI GLASS CO. LTD.) 08-05-1978
• [X] CHEMICAL ABSTRACTS, vol. 89, no. 16, 16th October 1978, page 59, abstract no. 131016v, Columbus, Ohio, US; & JP-A-78 50 079 (ASAHI GLASS CO. LTD.) 08-05-1978

Cited by
EP0353080A1; EP0467246A1; US5464584A; EP0579976A1; EP0345212A1

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